

شركة كوبريون الشرق الأوسط المحدودة

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**COMMERCIAL
PROPOSAL -
BUDGETARY**

Jubail, September 28, 2021

**Subject: Field Supervision services by Coperion
Inspection & Overhaul on Extruder at Unit 42,43 & 44 during SPCo South Plot TA-2022**

Your RFP Ref.: 25000902

**Our Budget Quotation Ref.: CMES-0642. QSM10199 – Priced Commercial
Pricing acc. to Service Contract Agreement, Ref. No. 4600010174**

Dear Mr. Mustafa,

We thank You for your valuable Inquiry and hereby provide you our **BUDGETARY COMMERCIAL PROPOSAL** for the Field Supervision Support by Coperion Service engineers being for:

S-CHEM / SPCo South Plot TA-2022

Inspection and Overhaul on Coperion Extruder Machines at

- **Unit 42 - ZSK380 - HDPE**
- **Unit 43 - ZSK380 - LDPE**
- **Unit 44 - ZSK350 - PP**

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Our Quote comprising the following:

1. Scope of Work
2. Price & Commercial conditions

The quoted price is only an "**Estimated Budgetary Value**" based on the defined time frame and in accordance to our agreed Service Contract Unit Rates / Agreement Ref. No. 4600010174. Final invoicing will be against the actual time sheets signed by the customer upon service completion.

We hope our quotation for the supervision services does satisfy and meet with your valuable approval. If you have any queries or clarifications, please don't hesitate to contact us.

We look forward in receiving your valuable Purchase Order and remain with many thanks.

Many Thanks and Best regards
Coperion Middle East Co. Ltd., Jubail



Marouane Mansour
General Manager
Coperion Middle East Co. Ltd



Fazil Ahamed
Project Manager
Coperion Middle East Co. Ltd

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SCOPE OF WORK

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1.1 Scope of Work – General Overview

The scope covers deputing Field Service Engineers from company “COPERION” for a period of approx. 3-4 weeks for providing Technical Supervision services during the forthcoming Turnaround scheduled in October 2022 at SPCO- South Plot – Unit 42, 43 & 44.

Our scope of work covers:

Pos.1	Scope Description	Unit-42	Unit-43	Unit-44
1	Overhaul Screws, Barrels & Process Section assemblies	X	X	X
2	Overhaul Extruder Gearbox	X	X	X
3	Overhaul Pellet Dewatering Dryers	X	X	X

Machine Data:

Description	Unit-42	Unit-43	Unit-44
Polymer	HDPE	LLDPE	PP
Machine:	ZSK 380	ZSK 380	ZSK 350
Machine no.:	20507503	20507540	20507466
Project no.:	64020862	64020863	64020861
SWZ:	21000	21000	14000
MP:	NA	NA	NA
UG:	1000	1000	725
Manufactured:	2009	2009	2009

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1.2 Scope of work – In Brief

Reference Doc: SPCo RFP – Exhibit I – Scope of Work
Section-A - 2.3, Page – 4 to 5

2.3.1 Unit 42/ZSK380 /HDPE

2.3.1.1 Overhaul Screws, Barrels & Process Section assemblies

Overhauling of Screw & Barrels that includes all dismantling & Re-assembling of process parts, existing barrels & screws, screen changer, Die Head housing, pelletizer system (assembly & Gear Box), DAV valves, Hydraulic system & other accessories. Replacement of the damaged parts.

2.3.1.2 Overhaul Suprex gearbox:

Replacement of wearable parts at a minimum; Replace Oil. Change all bearings and sealing, check all installed parts as gears and shaft. This job also involves Uncoupling & Recoupling of Motor with Gear Box, solo run testing & alignment of Main Drive Motor. *(Motor Dismantling, Overhauling, Installation, Rigging or electrical testing is not part of this scope).*

2.3.1.3 Overhaul Pellet Dewatering Dryers 42X84/85;

Replacement of Bearings, sprockets & Dry Screens

2.3.2 Unit 43/ZSK380 /LDPE

2.3.2.1 Overhaul Screws, Barrels & Process Section assemblies;

Overhauling of Screw & Barrels that includes all dismantling & Re-assembling of process parts, existing barrels & screws, screen changer, Repair of Any Polymer leaks, Die Head housing, pelletizer system (assembly & Gear Box), DAV valves, Hydraulic system & other accessories. Replacement of the damaged parts.

2.3.2.2 Overhaul Suprex gearbox:

Replacement of wearable parts at a minimum; Replace Oil. Change all bearings and sealing, check all installed parts as gears and shaft, Repair of Gear Box Bolts. This job also involves Uncoupling & Recoupling of Motor with Gear Box, solo run testing & alignment of Main Drive Motor. *(Motor Dismantling, Overhauling, Installation, Rigging or electrical testing is not part of this scope).*

2.3.2.3 Overhaul Pellet Dewatering Dryers 43X84/85;

Replacement of Bearings, sprockets & Dry Screens

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2.3.3 Unit 44 / ZSK350 / PP

2.3.3.1 Overhaul Screws, Barrels & Process Section assemblies;

Overhauling of Screw & Barrels that includes all dismantling & Re-assembling of process parts, existing barrels & screws, screen changer, Die Head housing, pelletizer system (assembly & Gear Box), DAV valves, Hydraulic system & other accessories. Replacement of the damaged parts.

2.3.3.2 Overhaul Flender gearbox;

Replacement of wearable parts at a minimum; Replace Oil. Change all bearings and sealing, check all installed parts as gears and shaft. This job also involves Uncoupling & Recoupling of Motor with Gear Box, solo run testing & alignment of Main Drive Motor. *(Motor Dismantling, Overhauling, Installation, Rigging or electrical testing is not part of this scope).*

2.3.3.3 Overhaul Pellet Dewatering Dryer 44X84;

Replacement of Bearings, sprockets & Dry Screens

Note: Following support would be provided by COMPANY

- Instruments Dismantling
- Electrical disconnections
- Scaffolding & Insulations
- Material handling & Rigging
- Sub-contractor's support

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1.3.1 Detailed Maintenance Scope of Work for Extruder Overhaul - Unit 42

Reference Doc: SPCo RFP – Exhibit I – Scope of Work
Section-A - 2.4, Page – 6 to 12

Schem RFP Ref.				Scope of Work	Coperion comments
SOW Doc.	JOB ID	Tag No.	Equipment Name		
2.3.1.1	SPCo-SP-0726	42V80	Extruder	1. Remove screw shafts for wear measurement.	OK
				2. Hydro blast polymer from screw shafts.	OK
				3. Unstack screw shaft elements for inspection for wear & Replacement (AWR) as recommended.	No need to be done in case no wear is found and elements are still exepable
				4. Verify spare screw timing using roll test before installing in barrels.	Coperion recommends to install the "new" and overhauled screw at unit 43 where we replace all barrels
				5. Clean elements and NDT splines for cracks. 6. Clean and NDT screw shaft for cracks.	No need if no findings on the screw elements and no need to dismantl the screw then
				7. Hydro blast barrels for inspection.	OK
				8. Measure barrel wear using COBRA instrumentation.	OK
				9. Remove barrels to replace gaskets if required due to polymer leaks. 9a; If Barrel replacement is decided after inspections , these would be replaced (AWR)	Guess not needed
				10. Overhaul the screw shaft seal if worn, replace the sealing set.	Sure meco seal soft / wear parts has to be replaced
				11. Check all heating and cooling connection piping and valves.	All spools has to be dismantled and checked for clogging
				12. Check the instruments, N2 control unit of Mecos seals.	OK
				13. Chemical cleaning by Acid flushing all barrel sections.	Shall be under S-Chem directly

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				14. Perform leak test for cooling and heating circuits.	Can be done but crack test is only valuable in hot conditions as sammler cracks can be sealed by polymer in cold conditions
				15. Replace Meco seals.	Already captured under point 10
				16. Grease the screw shaft couplings.	OK
				Note ; Spare Barrel & Elements would be available If barrels would be replaced, then chemical cleaning would be not required on old barrel (By other contractor)	
2.3.1.1	SPCo-SP-0728	42DAV	Extruder Startup valve DAV - 42A404	1. Remove DAV plug and clean excessive polymer leak.	Spare slider shall be considered as polymer leak is already present and housing can be also damaged...
				2. Remove DAV/SUV housing for screw removal.	OK
				3. Replace hydraulic cylinder.	OK and old one can be send to CME for overhaul after TAM
				4. Hydro blast DAV to remove degraded polymer.	OK
2.3.1.1	SPCo-SP-0729	42A405	Screen pack changers	1. Remove screen changer housing for screw removal.	OK
				2. Remove sliders to clean and lubricate.	Slider must be pulled in hot conditions Separate scaffold shall be planned in order to get the sliders out.
				3. Hydro blast S/C after removal to remove degraded polymer. 4. Replacement of screen elements (independent from shut-down activity). 5. Drain hydraulic fluid from cylinders. 6. Disconnect Hydraulic oil supply and return hoses. 7. Replace hydraulic oil hoses.	OK
2.3.1.1	SPCo-SP-0730	42T90	SPC/DAV Hydraulic system	Change the Hydraulic oil.	Filter shall be replaced as well. tank needs to be opened and cleaned after oil is drained and before refill new oil

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2.3.1.1	SPCo-SP-0731	42A409	Die-plate	To Replace on insulation ring bolts on die plate Replace die-plate	OK
2.3.1.1	SPCo-SP-0732	42A410	Pelletizer	1. Replace O-Ring at pelletizer water box. 2. Check and repair sealing face of water box.	OK
				3. Replace all bearings, seals, and O-rings of the knife shaft bearing assembly.	Complete overhaul of the assembly with our special stand from CME
				4. Replace the distance bushing for angular contact bearings on shaft. 5. Knife adjustment: Check hydraulic cylinders for leakage. 6. Replace springs and O-Rings of docking pins. 7. Replace docking pin and docking cylinders on the pelletizer. 8. Check of cardan-shaft for backlash and re-lubrication. If required replace. 9. Replace coupling insert between motor and gearbox. 10. Replace of hydraulic oil filter.	OK
				11. Change hydraulic oil.	Clean tank after oil is drained and before filling new oil
				12. Replace pumps. (Refer to SPCo-SP-2507 and 2508)-COMPANY Team	OK
				13. Pelletizer movement: Check hydraulic cylinder for leakage:	OK part of recommissioning after overhaul
				14. Replace the gearbox bearings and inspect the gears and shafts and replace the seal.	So customer wants complete overhaul we may consider here additional manpower from our side...
				15. Replace the Motor Bearings.	OK
2.3.1.1	SPCo-SP-0733	42T85	Pelletizer hydraulic oil system	Change the Hydraulic oil.	Already captured under point 11.

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2.3.1.1	SPCo-SP-2485	42V80	BCW	To do chemical cleaning. Notification # 11819847	OK by customer
2.3.1.1	SPCo-SP-2657	42A408	Die Head Housing	1. Remove Die Head Housing 2. Clean (Hydro jetting) and Inspect	OK
2.3.1.2	SPCo-SP-0727	42A203	Extruder gearbox	1. Remove all gears shafts for bearing replacement and inspection of gears.	Normal complete overhaul for the gear box
				2. Check function of lubrication system to bearings and gear.	OK
				3. Change oil and filters.	OK after recommissioning to avoid clogging by sealant after overhaul
				4. Replace superposition drive backstop. 5. Replace all bearings, seals, and rotary union. 6. Verify timing of shafts. 7. Inspect lube oil piping for cracks. 8. NDT shaft and gears.	OK and NDT shaft & gears mandatory
				9. Inspect the Desch coupling	V-Rings on hub side (gear box side) shall be replaced Axial locking device shall be replaced as well
				10. Replace desch coupling bolts 11. Replace desch coupling flexible elements (buffer) 12. Inspect / replace Friction unit	OK
2.3.1.2	SPCo-SP-2882	42XM80	Extruder Motor	<u>Solo run the motor and verify magnetic running center of the shaft so placement of the shaft position can be done when coupling to the gear box. Electrical Testing will be carried out by Siemens representative.</u> (This job related to: Rotating) Notification # 11836378	OK

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2.3.1.3	SPCo-SP-0739	42X84	Pellet Dewatering Dryer	Replace the Dryer screens. Replace the Top & bottom Bearings & seals, Replace inlet filter. Inspect sprocket and replace belt.	OK
2.3.1.3	SPCo-SP-0740	42X85	Pellet Dewatering Dryer	Replace the Dryer screens. Replace the Top & bottom Bearings & seals, Replace inlet filter. Inspect sprocket and replace belt.	OK

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Detailed Maintenance Scope of Work for Extruder Overhaul - Unit 43

Reference Doc: SPCo RFP – Exhibit I – Scope of Work
Section-A - 2.4, Page – 13 to 20

Schem RFP Ref.				Scope of Work	Coperion comments
SOW Doc.	JOB ID	Tag No.	Equipment Name		
2.3.2.1	SPCo-SP-0743	43V80	Extruder	1. Remove screw shafts for wear measurement.	OK
				2. Hydro blast polymer from screw shafts.	OK
				3. Unstack screw shaft elements for inspection for wear & Replacement (AWR) as recommended.	not needed in case all elements are still OK and healthy
				4. Verify spare screw timing using roll test before installing in barrels.	Coperion recommends to install the "new" and overhauled screw at unit 43 where we replace all barrels
				5. Clean elements and NDT splines for cracks. 6. Clean and NDT screw shaft for cracks.	Not needed as screw elements will be not dismantled
				7. Hydro blast barrels for inspection.	OK
				8. Measure barrel wear using COBRA instrumentation.	OK
				9. Replace 7 Barrels barrels & gaskets if required due to polymer leaks. (AWR)	All barrels get replaced with new once and old removed once shall be send to CME for further testing and evaluating to decide if usable as emergency spars (Mr. Abdullah Al-Barqi / S-Chem)
				10. Overhaul the screw shaft seal if worn, replace the sealing set.	OK
				11. Check all heating and cooling connection piping and valves.	All spools need to be dismantled to check for clogging with polymer
				12. Check the instruments, N2 control unit of Mecos seals.	OK
				13. Chemical cleaning by Acid flushing all barrel sections.	OK but can be done also after the TAM or beside as new barrels will be installed

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				14. Perform leak test for cooling and heating circuits.	Can be done but crack test is only valuable in hot conditions as some of the cracks can be sealed by polymer in cold conditions
				15. Replace Meco seals.	Already captured under point 10
				16. Grease the screw shaft couplings.	OK
				Note ; Spare Barrel & Elements would be available If barrels would be replaced, then chemical cleaning would be not required on old barrel (By other contractor)	
2.3.2.1	SPCo-SP-0745	43DAV	Extruder Startup valve DAV - 43A404	1. Remove DAV plug and clean excessive polymer leak.	As unit 42 / 43 are identical at least one spare slider for any case shall be considered...
				2. Remove DAV/SUV housing for screw removal.	OK
				3. Replace hydraulic cylinder.	OK. removed one can be send to CME for overhaul
				4. Hydro blast DAV to remove degraded polymer.	OK
2.3.2.1	SPCo-SP-0746	43A405	Screen pack changers	1. Remove screen changer housing for screw removal.	OK
				2. Remove sliders to clean and lubricate.	OK New bolts etc. for cooling rings need to be considered!!!
				3. Hydro blast S/C after removal to remove degraded polymer. 4. Replacement of screen elements (independent from shut-down activity). 5. Drain hydraulic fluid from cylinders. 6. Disconnect Hydraulic oil supply and return hoses. 7. Replace hydraulic oil hoses.	OK
2.3.2.1	SPCo-SP-0747	43T90	SPC/DAV Hydraulic system	Change the Hydraulic oil.	Filter shall be replaced as well tank needs to be opened and cleaned after oil is drained and before refill new oil
2.3.2.1	SPCo-SP-0748	43A409	Die-plate	To Replace on insulation ring bolts on die plate Replace die-plate	OK

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2.3.2.1	SPCo-SP-0749	43A410	Pelletizer	1. Replace O-Ring at pelletizer water box. 2. Check and repair sealing face of water box.	OK
				3. Replace all bearings, seals, and O-rings of the knife shaft bearing assembly.	Complete overhaul of the unit with special stand on site
				4. Replace the distance bushing for angular contact bearings on shaft. 5. Knife adjustment: Check hydraulic cylinders for leakage. 6. Replace springs and O-Rings of docking pins. 7. Replace docking pin and docking cylinders on the pelletizer. 8. Check of cardan-shaft for backlash and re-lubrication. If required replace. 9. Replace coupling insert between motor and gearbox. 10. Replace of hydraulic oil filter.	OK
				11. Change hydraulic oil.	OK
				12. Replace pumps. (Refer to SPCo-SP-2507 and 2508)-COMPANY Team	OK
				13. Pelletizer movement: Check hydraulic cylinder for leakage:	OK
				14. Replace the gearbox bearings and inspect the gears and shafts and replace the seal.	As its complete overhaul we may consider here additional manpower from our side...
				15. Replace the Motor Bearings.	OK
2.3.2.1	SPCo-SP-0750	43T85	Pelletizer hydraulic oil system	Change the Hydraulic oil.	OK
2.3.2.1	SPCo-SP-2484	43X80	SPC (Screen Pack Changer)	Need to Fix Polymer Leak from Screen Pack Changer Side. Notification # 11819169	S-Chem shall approach Coperion where exactly is the leak and technical evaluation and necessary spare part requirement need to be checked

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22.3.1.1	SPCo-SP-2485	43V80	BCW	To do chemical cleaning. Notification # 11819888	OK by customer
2.3.2.1	SPCo-SP-2658	43A408	Die Head Housing	1. Remove Die Head Housing 2. Clean (Hydro jetting) and Inspect	OK
2.3.2.2	SPCo-SP-0744	43A203	Extruder gearbox	1. Remove all gears shafts for bearing replacement and inspection of gears.	Complete gearbox overhaul incl. modification / rework need to be done! Coperion is checking if maybe a new bearing bridge is needed. (Reliability Mr. Abdullah Al-Barqi is involved)
				2. Check function of lubrication system to bearings and gear.	OK
				3. Change oil and filters.	OK after recommissioning
				4. Replace superposition drive backstop. 5. Replace all bearings, seals, and rotary union. 6. Verify timing of shafts. 7. Inspect lube oil piping for cracks. 8. NDT shaft and gears.	OK
				9. Inspect the Desch coupling	V-Ring replacement shall be considered as well replacement for the axial lock
				10. Replace desch coupling bolts 11. Replace desch coupling flexible elements (buffer) 12. Inspect / replace Friction unit	OK
2.3.2.2	SPCo-SP-2483	43X80 - V80	Gearbox	Three bolts on the gearbox need to be repaired. Rotating Reliability engineer and CONTRACTOR will have to determine the type of repair necessary. Notification # 11818912	As per Coperion records these bolts has to be M56 S-Chem told us different size. Final clarification shall be done

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2.3.2.2	SPCo-SP-2883	43XM80	Extruder Motor	<u>solo run the motor and</u> verify magnetic running center of the shaft so placement of the shaft position can be done when coupling to the gear box. <u>Electrical Testing will be carried out by Siemens representative.</u> (This job related to: Rotating) Notification # 11836379	OK
2.3.2.3	SPCo-SP-0756	43X84	Pellet Dewatering Dryer	Replace the Dryer screens. Replace the Top & bottom Bearings & seals, Replace inlet filter. Inspect sprocket and replace belt.	OK
2.3.2.3	SPCo-SP-0757	43X85	Pellet Dewatering Dryer	Replace the Dryer screens. Replace the Top & bottom Bearings & seals, Replace inlet filter. Inspect sprocket and replace belt.	OK

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Detailed Maintenance Scope of Work for Extruder Overhaul - Unit 44

Reference Doc: SPCo RFP – Exhibit I – Scope of Work
Section-A - 2.4, Page – 21 to 28

Schem RFP Ref.				Scope of Work	Coperion comments
SOW Doc.	JOB ID	Tag No.	Equipment Name		
2.3.3.1	SPCo-SP-1806	44X80	44V80- Extruder Die Plate (A409)	1. Replace Die Plate 2. Removed die need to send to CONTRACTOR WS for overhauling.	OK
2.3.3.1	SPCo-SP-1858	44A410	44V80- Pelletizer	1. Replace O-Ring at pelletizer water box. 2. Check and repair sealing face of water box. 3. Replace Pelletizer Knife Shaft Assembly With Warehouse stock. 4. Removed Pelletizer Knife Shaft Assembly Need to Be Overhauled (Replace all bearings, seals, and O-rings of the knife shaft bearing assembly, Replace the distance bushing for angular contact bearings on shaft) 5. Knife adjustment: Check hydraulic cylinders for leakage. 6. Replace springs and O-Rings of docking pins. 7. Replace docking pin and docking cylinders on the pelletizer. 8. Check of cardan-shaft for backlash and re-lubrication. If required replace. 9. Replace of hydraulic oil filter. 10. Change hydraulic oil. 11. Pelletizer movement: Check hydraulic cylinder for leakage:	OK
2.3.3.1	SPCo-SP-1859	44X92	44V80- Throttle Valve	1. Remove DAV plug and clean the excessive polymer leak. 2. Remove DAV/SUV housing for screw removal. 3. Replace hydraulic cylinder.	OK

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2.3.3.1	SPCo-SP-1860	44X93	44V80- Start Up Valve (DAV)	1. Remove DAV plug to clean the excessive polymer and inspection. 2. Remove DAV/SUV housing for screw removal. 3. Replace hydraulic cylinder soft kits. 4. Hydro blast DAV to remove degraded polymer.	OK
2.3.3.1	SPCo-SP-1861	44X94A	44V80- Screen Pack Changer A	1. Drain hydraulic fluid from cylinders. 2. Disconnect Hydraulic oil supply and return hoses. 3. Remove screen changer housing for screw removal. 4. Hydro blast S/C after removal to remove degraded polymer. 5. Remove sliders to clean and lubricate 6. Replacement of screen elements 7. Replace hydraulic oil hoses	OK
2.3.3.1	SPCo-SP-1862	44X94B	44V80- Screen Pack Changer B	1. Drain hydraulic fluid from cylinders. 2. Disconnect Hydraulic oil supply and return hoses. 3. Remove screen changer housing for screw removal. 4. Hydro blast S/C after removal to remove degraded polymer. 5. Remove sliders to clean and lubricate 6. Replacement of screen elements (independent from shut-down activity). 7. Replace hydraulic oil hoses	OK
2.3.3.1	SPCo-SP-1864	44X80	44V80- Extruder (Zone/Barrels)	1. Disconnect/Connect Barrel Cooling Water (BCW) supply and return connections from/to the barrels.	OK and check for clogging of the spools
				2. Disconnect/Connect HP steam supply and condensate return connections from/to the barrels.	OK
				3. Remove screw shafts for wear measurement.	
				4. Hydro blast polymer from screw shafts.	
				5. Unstack screw shaft elements for replacement due to wear.	based on inspection
				6. Verify spare screw timing using roll test before installing in barrels. 6a; Screw & Elements would be available for replacement and if required , these would be replaced.(AWR)	OK
				7. Clean elements and NDT splines for cracks.	based on inspection as may not needed to dismantle the screw shaft
				8. Clean and NDT screw shaft for cracks.	based on inspection as may not needed to dismantle the screw shaft

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			9. Remove barrels and Hydro blast for inspection. Kindly confirm whether required leak test for barrel. (It will be evaluated after the barrels inspection as per rotation equipment department comment) 9a. Barrels 2 to 9 is recommended for Replacement. (AWR) 10. Measure barrel wear using COBRA instrumentation. 12. Overhaul the screw shaft seal if worn, replace the sealing set. 13. Replace barrels gaskets. 14. Check all heating and cooling connection piping and valves. 15. Check the instruments, N2 control unit of Meco seals. 16. Acid (Chemical Cleaning) flush all barrel sections by third party support. (Please refer the line item # SPCo-SP-2651) 17. Replace Meco seals. 18. Grease the screw shaft couplings.	Coperion recommends to perform cobra measurement here for the old barrels as well All barrels excluding inlet barrel (1) will be replaced OK / see point 9 OK Will be covered by installation of the new barrels OK maybe not needed for the old barrels Already covered under point 12. OK
2.3.3.1	SPCo-SP-1865	44A408	44V80- Die Head Housing Zone 1. Remove Die Head Housing 2. Inspect and Clean (Hydro jetting)	OK
2.3.3.1	SPCo-SP-2618	44T85	Pelletizer hydraulic oil system - 44V80 1. Change the Hydraulic oil. 2. Tank Cleaning. 3. Suction screen/ strainer cleaning.	OK

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2.3.3.1	SPCo-SP-2651	44X80	BCW	Acid (Chemical Cleaning) flush all barrel sections by third party support. (This line item associated with # SPCo-SP-1864)	OK by customer
2.3.3.2	SPCo-SP-1863	44A203	Extruder gearbox	1. Remove all gears shafts for bearing replacement and inspection of gears.	Complete overhaul will be carried out
				2. Check function of lubrication system to bearings and gear. 3. Change oil 4. Replace Auxiliary drive backstop. 5. Replace all bearings, seals, and rotary union. 6. Verify timing of shafts. 7. Inspect lube oil piping for cracks. 8. NDT shaft and gears.	OK
				9. Inspect the Desch coupling	Including replacing the V-Ring and Axial lock
				10. Replace desch coupling bolts 11. Replace desch coupling flexible elements (buffer) 12. Inspect / replace Friction unit	OK
2.3.3.2	New Job	44XM80	Extruder Motor	<u>solo run the motor and verify magnetic running center of the shaft so placement of the shaft position can be done when coupling to the gear box. Electrical Testing will be carried out by Siemens representative.</u> (This job related to: Rotating)	OK
2.3.3.3	SPCo-SP-1852	44X84	44V84- Pellet Dewatering Dryer	1. Replace the Top & bottom Bearings. 2. Replace the seals, inlet filter 3. Inspect the rotor assembly 4. Replace Belt. 5. Inspect the Sprocket 6. Inspect the screen and replaced if required. (with warehouse stock)	OK

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1.4 General Remarks on Coperion scope of supplies & services:

- **Coperion scope is limited only to Supervision support at Schem site and Schem Workshop. All other manpower, equipments, Tools, drawings, Method of Statement, Job Safety Analysis, QAQC plan, HSE plan, Scheduling, Onsite documentation and other site requirements required to execute the job to be arranged by client.**
- **The duration proposed in this quotation is based on estimation. Job completion within the proposed maintenance window is under responsibility of client and the actual duration of service execution & completion will be as per actual site scenario and manpower / equipment resources from client.**
- **On site hours incl. Safety orientation, Medical tests for ID process, waiting for gate passes, laptop passes etc. are liable to be charged under working hours according to our provided unit rates, Page No. 30**
- **Schem to notify Coperion about the de-mobilization date of each engineer min. 36 hours in advance**

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1.5 Coperion Manpower - Overview:

The Field supervision services will be carried out by the following no. of Coperion Engineers.

Pos.	Description	Work Location	Duration	SHIFT
A	Unit - 42			
1	Gearbox Engineer-1	Extruder Gearbox	25	DAY
2	Gearbox Engineer-2	Extruder Gearbox	22	NIGHT
3	Mechanical Engineer-1	Process & Discharge	17	DAY
4	Mechanical Engineer-2	Process & Discharge	17	NIGHT
B	Unit - 43			
1	Gearbox Engineer-1	Extruder Gearbox	22	DAY
2	Gearbox Engineer-2	Extruder Gearbox	22	NIGHT
3	Mechanical Engineer-1	Process & Discharge	17	DAY
4	Mechanical Engineer-2	Process & Discharge	17	NIGHT
C	Unit - 44			
1	Gearbox Engineer-1	Extruder Gearbox	22	DAY
2	Gearbox Engineer-2	Extruder Gearbox	22	NIGHT
3	Mechanical Engineer-1	Process & Discharge	17	DAY
4	Mechanical Engineer-2	Process & Discharge	17	NIGHT
D	Unit – 42 + 43 +44			
1	Cobra Specialist	Barrel Wear Measurement	6	DAY
2	Electrical / Control Engineer-1	Electrical & Control Sys.	11	DAY
3	Site Manager	Site Management	26	DAY
4	Mechanical Engineer-1	Jumper	23	DAY/NIGHT

Remarks: All other manpower required to execute the job has to be arranged and taken care by the client.

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Service Duration / Schedule

Duration of service expected to be for approx.. 3-4 weeks with respect to actual site scenario.
Standard Work Schedule for each Coperion Engineer: 10 Hours / Shift, 2 Shifts/Day and 06 Days per week.

The working days proposed in the Coperion Manpower Loading Chart is only a tentative schedule.
The detailed schedule needs to be worked out together with the client planning team after the Order placement.

Remarks on Engineers Schedule:

Our Field Service Engineers are allowed to work for a maximum of 6 consecutive days a week, i.e., 10 hours per shift / 60 Hours per week including One Day-Off (7th day of week) – in accordance to the regulation of German Labor Law. If required and/or requested by the client to work more than the above specified period, the client may request Coperion with a written approval from the Saudi Ministry.

Nevertheless, on a special note we agree to execute the job on the basis of:

- ✓ 12 Hours / Shift, 2 Shifts/Day and a Day-off after every 6 days (+/- 1 or 2 days)

Remarks: The above proposed work duration is exclusive of any Quarantine period in Saudi Arabia, Germany and/or any other Nation. If applicable, this shall be additionally considered for the actual service scheduling as per the actual number of Quarantine days as advised by the Ministry of countries involved. The applicable quarantine period / days are subject to chargeable.

Enclosed:

- ❖ 1.6 Manpower Loading Chart – Coperion
- ❖ 1.7 Manpower requirement Chart – Coperion & Schem Contractor

REMARKS:
=> This is only an estimated time frame for the purpose of issuing the quotation. The detailed TA Maintenance schedule needs to be worked out by the client together with the input from Coperion. => Repair and/ or machining activities at Coperion workshop are not considered in this schedule / proposal and can be quoted seperately after discussing the requirements in detail with the end-user.

Manpower requirement Chart - Schem Sub-contractor

Inspection & Overhaul on Extruder at Unit 42, 43 & 44

SPCo South Plot TA-2022

> compounding & extrusion
> materials handling
> service

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Unit	Activities	DAY - SHIFT					NIGHT - SHIFT				
		Coperion	SChem Contractor				Coperion	SChem Contractor			
		Engineers	Mechanics	Riggers	Cleaners	Electrician	Engineers	Mechanics	Riggers	Cleaners	Electrician
42	Gearbox	1	6	4	2	-	1	2	4	6	
42	Process section	1	6	4	4	2	1	4	4	6	
42	Discharge section										
42	Sub-Total Manpower	2	12	8	6	2	2	6	8	12	0
43	Gearbox	1	6	4	2	-	1	2	4	6	
43	Process section	1	6	2	4	2	1	4	4	6	
43	Discharge section										
43	Sub-Total Manpower	2	12	6	6	2	2	6	8	12	0
44	Gearbox	1	4	4	6	-	1	4	4	6	
44	Process section	1	6	2	4	2	1	4	4	6	
44	Discharge section										
43	Sub-Total Manpower	2	10	6	10	2	2	8	8	12	0
42, 43, 44	Cobra Wear Measurement	1									
42, 43, 44	Electrial & Control Sys.	1									
42, 43, 44	Site Management	1									
42, 43, 44	Jumper	1									
42, 43, 44	Total Manpower	10	34	20	22	6	6	20	24	36	0

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2

PRICE & COMMERCIAL CONDITIONS

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2.1 Price Summary

Budgetary price for Coperion Field Supervision – excl. VAT **€ 1,137,496.00**

Quarantine Charges are excluded and if applicable will be added as per actual days

Standard KSA VAT – 15% **€ 170,624.40**

Total Budgetary Price – incl. 15% VAT **€ 1,308,120.40**

Price Breakdown - Summary					
Pos.	Description	Work Location	Days	SHIFT	Budgetary Price
A	Unit - 42				
1	Gearbox Engineer-1	Extruder Gearbox	25	DAY	€ 88,688.00
2	Gearbox Engineer-2	Extruder Gearbox	22	NIGHT	€ 82,035.00
3	Mechanical Engineer-1	Process & Discharge	17	DAY	€ 61,601.00
4	Mechanical Engineer-2	Process & Discharge	17	NIGHT	€ 64,065.00
B	Unit - 43				
1	Gearbox Engineer-1	Extruder Gearbox	22	DAY	€ 79,395.00
2	Gearbox Engineer-2	Extruder Gearbox	22	NIGHT	€ 80,055.00
3	Mechanical Engineer-1	Process & Discharge	17	DAY	€ 63,273.00
4	Mechanical Engineer-2	Process & Discharge	17	NIGHT	€ 64,065.00
C	Unit - 44				
1	Gearbox Engineer-1	Extruder Gearbox	22	DAY	€ 76,887.00
2	Gearbox Engineer-2	Extruder Gearbox	22	NIGHT	€ 80,055.00
3	Mechanical Engineer-1	Process & Discharge	17	DAY	€ 61,601.00
4	Mechanical Engineer-2	Process & Discharge	17	NIGHT	€ 65,385.00
D	Unit – 42 + 43 + 44				
1	Cobra Specialist	Barrel Wear Measurement	6	DAY	€ 28,210.00
2	Electrical / Control -1	Electrical & Control Sys.	11	DAY	€ 42,660.00
3	Site Manager	Site Management	26	DAY	€ 91,862.00
4	Mechanical Engineer-1	Jumper	23	DAY/NIGHT	€ 81,859.00
E	Special Tools - 42 + 43 + 44				
1	Special Tools	Gearbox	30	DAY/NIGHT	€ 6,600.00
2	Cobra Special Tools - Barrel Wear Measurement	Lumpsum - DDP site			€ 19,200.00
	Total Budgetary Price – excl. 15% VAT				
					€ 1,137,496.00

Detailed Price Breakdown for each position with duration is shown under Page No. 31 and 46

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Price includes Working Rates, Mobilization-Demobilization Charges, Local Transportation, Food, Accommodation and Daily Allowances for all the listed engineers.

The working days proposed above are only for estimation purpose. The price quoted above is only an **"Estimated Budgetary Value"** based on the tentative work duration, and in accordance to our Unit rates agreed in the Service Contract Ref. No. 4600010174 as mentioned in Page No. 30

Remarks:

The price is exclusive of Covid-19 Quarantine charges in Saudi Arabia, Germany and/or any other Nation outside KSA, which the customer shall be additionally liable to pay Coperion during Invoicing as per the actual total number of Quarantine days as advised by the Ministry of both the countries.

The applicable quarantine period charges are as follows:

- Standby Charges: EUR 1600.- per Day per engineer
- Daily Allowances: EUR 355.- per Day per engineer

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2.2 Service Unit Rates of Coperion Middle East Co. Ltd.

In accordance to Schem-Coperion Service Contract Agreement: Ref. No. 4600010174

SN	Description	Contract Rate - 2022
1	Normal Working Rates – Day Shift - (First 8 Hours) Normal Working Hours - 8 Hrs / Day & 5 days / week (Sun.-Thu.) Standard Normal working hours (7.00AM - 4.00PM) per day	€ 198.-
2	Overtime Rates #1 - (9th and 10th Hour) Over time work hour - First 2 Hours exceeding Normal 8 Hrs 9th and 10th Hour: 5 days / week (Sun. – Thu.)	€ 220.-
3	Overtime Rates #2 - (From 11th Hour) Overtime work hour - exceeding the first 10 Hours From 11th Hour: 5 days / week (Sun. – Thu.) and/or Fridays & Saturdays	
4	Normal Working Rates – Night Shift Normal Working Hours – 8 Hrs / Night and 5 days/ week (Sun.- Thu.) First 8 hours during (6.00PM - 6.00AM) per day Any Hours exceeding the first 8 hours during above period will be considered under clause 2,3, and 5	
5	Overtime Rates #3 - (Weekends) Any work hours during Fridays & Saturdays	€ 275.-
6	Overtime Rates #4 - (Public Holidays) Any work hours during Public Holidays	
7	Mobilization / De-mobilization Charges Flight costs, Traveling Hours, Visa fee & all other travel expenses / Person / Round trip: Europe - KSA	€ 9,750.-
8	Allowances Daily allowance, Accommodation, meals and local transport / Person/ Calendar day	€ 355.-

Price Validity : As per Service Contract Agreement No. 4600010174

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2.3 Detailed Price Breakdown + Tentative Work Schedule

Pos. A-1 – #1 – Gearbox Engineer – DAY Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	136	Hrs	€ 198.00	€ 26,928.00
2	Overtime Rates #1 – (9 & 10 Hours)	34	Hrs	€ 220.00	€ 7,480.00
3	Overtime Rates #2 – (From 11 th Hour)	34	Hrs	€ 220.00	€ 7,480.00
4	Normal Rates - Night Shift – (8 Hours)	0	Hrs	€ 220.00	€ 0.00
5	Overtime Rates #3 – (Fridays & Saturdays)	96	Hrs	€ 275.00	€ 26,400.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	30	Days	€ 355.00	€ 10,650.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. A-1 – #1 – Gearbox Engineer				€ 88,688.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	27-Sep-22	Tuesday	Hrs	TRAVELLING DAY					
2	28-Sep-22	Wednesday	Hrs	8	2	2	-	-	-
3	29-Sep-22	Thursday	Hrs	8	2	2	-	-	-
4	30-Sep-22	Friday	Hrs	-	-	-	12	-	-
5	01-Oct-22	Saturday	Hrs	-	-	-	12	-	-
6	02-Oct-22	Sunday	Hrs	8	2	2	-	-	-
7	03-Oct-22	Monday	Hrs	8	2	2	-	-	-
8	04-Oct-22	Tuesday	Hrs	8	2	2	-	-	-
9	05-Oct-22	Wednesday	Hrs			Day-Off			
10	06-Oct-22	Thursday	Hrs	8	2	2	-		
11	07-Oct-22	Friday	Hrs	-	-	-	12	-	-
12	08-Oct-22	Saturday	Hrs	-	-	-	12	-	-
13	09-Oct-22	Sunday	Hrs	8	2	2	-	-	-
14	10-Oct-22	Monday	Hrs	8	2	2	-	-	-
15	11-Oct-22	Tuesday	Hrs	8	2	2	-	-	-
16	12-Oct-22	Wednesday	Hrs			Day-Off			
17	13-Oct-22	Thursday	Hrs	8	2	2	-	-	-
18	14-Oct-22	Friday	Hrs	-	-	-	12	-	-
19	15-Oct-22	Saturday	Hrs	-	-	-	12	-	-
20	16-Oct-22	Sunday	Hrs	8	2	2	-	-	-
21	17-Oct-22	Monday	Hrs	8	2	2	-	-	-
22	18-Oct-22	Tuesday	Hrs	8	2	2	-	-	-
23	19-Oct-22	Wednesday	Hrs			Day-Off			
24	20-Oct-22	Thursday	Hrs	8	2	2	-	-	-
25	21-Oct-22	Friday	Hrs	-	-	-	12	-	-
26	22-Oct-22	Saturday	Hrs	-	-	-	12	-	-
27	23-Oct-22	Sunday	Hrs	8	2	2	-	-	-
28	24-Oct-22	Monday	Hrs	8	2	2	-	-	-
29	25-Oct-22	Tuesday	Hrs	8	2	2	-	-	-
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			136	34	34	96	0	0
	Total Working Hours:								300

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Detailed Price Breakdown + Tentative Work Schedule
Pos. A-2 – #2 – Gearbox Engineer – NIGHT Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	0	Hrs	€ 198.00	€ 0.00
2	Overtime Rates #1 – (9 & 10 Hours)	30	Hrs	€ 220.00	€ 6,600.00
3	Overtime Rates #2 – (From 11 th Hour)	30	Hrs	€ 220.00	€ 6,600.00
4	Normal Rates - Night Shift – (8 Hours)	120	Hrs	€ 220.00	€ 26,400.00
5	Overtime Rates #3 – (Fridays & Saturdays)	84	Hrs	€ 275.00	€ 23,100.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances		Days	€ 355.00	€ 9,585.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. A-2 – #2 – Gearbox Engineer				€ 82,035.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	30-Sep-22	Friday	Hrs	TRAVELLING DAY					
2	01-Oct-22	Saturday	Hrs	-	-	-	12	-	
3	02-Oct-22	Sunday	Hrs	-	2	2	-	8	
4	03-Oct-22	Monday	Hrs	-	2	2	-	8	
5	04-Oct-22	Tuesday	Hrs	-	2	2	-	8	
6	05-Oct-22	Wednesday	Hrs	-	2	2	-	8	
7	06-Oct-22	Thursday	Hrs			Day-Off			
8	07-Oct-22	Friday	Hrs	-	-	-	12	-	
9	08-Oct-22	Saturday	Hrs	-	-	-	12	-	
10	09-Oct-22	Sunday	Hrs	-	2	2	-	8	
11	10-Oct-22	Monday	Hrs	-	2	2	-	8	
12	11-Oct-22	Tuesday	Hrs	-	2	2	-	8	
13	12-Oct-22	Wednesday	Hrs	-	2	2	-	8	
14	13-Oct-22	Thursday	Hrs			Day-Off			
15	14-Oct-22	Friday	Hrs	-	-	-	12	-	
16	15-Oct-22	Saturday	Hrs	-	-	-	12	-	
17	16-Oct-22	Sunday	Hrs	-	2	2	-	8	
18	17-Oct-22	Monday	Hrs	-	2	2	-	8	
19	18-Oct-22	Tuesday	Hrs	-	2	2	-	8	
20	19-Oct-22	Wednesday	Hrs	-	2	2	-	8	
21	20-Oct-22	Thursday	Hrs			Day-Off			
22	21-Oct-22	Friday	Hrs	-	-	-	12	-	
23	22-Oct-22	Saturday	Hrs	-	-	-	12	-	
24	23-Oct-22	Sunday	Hrs	-	2	2	-	8	
25	24-Oct-22	Monday	Hrs	-	2	2	-	8	
26	25-Oct-22	Tuesday	Hrs	-	2	2	-	8	
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			0	30	30	84	120	0
	Total Working Hours:								264

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Pos. A-3 – #3 – Mechanical Engineer – Process & Discharge – DAY Shift[illegible]

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Pos. A-4 – #4 – Mechanical Engineer – Process & Discharge – NIGHT Shift[illegible]

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Detailed Price Breakdown + Tentative Work Schedule
Pos. B-1 – #5 – Gearbox Engineer – DAYShift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	120	Hrs	€ 198.00	€ 23,760.00
2	Overtime Rates #1 – (9 & 10 Hours)	30	Hrs	€ 220.00	€ 6,600.00
3	Overtime Rates #2 – (From 11 th Hour)	30	Hrs	€ 220.00	€ 6,600.00
4	Normal Rates - Night Shift – (8 Hours)	0	Hrs	€ 220.00	€ 0.00
5	Overtime Rates #3 – (Fridays & Saturdays)	84	Hrs	€ 275.00	€ 23,100.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	27	Days	€ 355.00	€ 9,585.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. B-1 – #5 – Gearbox Engineer				€ 79,395.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	30-Sep-22	Friday	Hrs	TRAVELLING DAY					
2	01-Oct-22	Saturday	Hrs	-	-	-	12	-	
3	02-Oct-22	Sunday	Hrs	8	2	2	-	-	
4	03-Oct-22	Monday	Hrs	8	2	2	-	-	
5	04-Oct-22	Tuesday	Hrs	8	2	2	-	-	
6	05-Oct-22	Wednesday	Hrs	8	2	2	-	-	
7	06-Oct-22	Thursday	Hrs			Day-Off			
8	07-Oct-22	Friday	Hrs	-	-	-	12	-	
9	08-Oct-22	Saturday	Hrs	-	-	-	12	-	
10	09-Oct-22	Sunday	Hrs	8	2	2	-	-	
11	10-Oct-22	Monday	Hrs	8	2	2	-	-	
12	11-Oct-22	Tuesday	Hrs	8	2	2	-	-	
13	12-Oct-22	Wednesday	Hrs	8	2	2	-	-	
14	13-Oct-22	Thursday	Hrs			Day-Off			
15	14-Oct-22	Friday	Hrs	-	-	-	12	-	
16	15-Oct-22	Saturday	Hrs	-	-	-	12	-	
17	16-Oct-22	Sunday	Hrs	8	2	2	-	-	
18	17-Oct-22	Monday	Hrs	8	2	2	-	-	
19	18-Oct-22	Tuesday	Hrs	8	2	2	-	-	
20	19-Oct-22	Wednesday	Hrs	8	2	2	-	-	
21	20-Oct-22	Thursday	Hrs			Day-Off			
22	21-Oct-22	Friday	Hrs	-	-	-	12	-	
23	22-Oct-22	Saturday	Hrs	-	-	-	12	-	
24	23-Oct-22	Sunday	Hrs	8	2	2	-	-	
25	24-Oct-22	Monday	Hrs	8	2	2	-	-	
26	25-Oct-22	Tuesday	Hrs	8	2	2	-	-	
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			120	30	30	84	120	0
	Total Working Hours:								264

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Detailed Price Breakdown + Tentative Work Schedule
Pos. B-2 – #6 – Gearbox Engineer – NIGHT Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	0	Hrs	€ 198.00	€ 0.00
2	Overtime Rates #1 – (9 & 10 Hours)	36	Hrs	€ 220.00	€ 7,920.00
3	Overtime Rates #2 – (From 11 th Hour)	36	Hrs	€ 220.00	€ 7,920.00
4	Normal Rates - Night Shift – (8 Hours)	144	Hrs	€ 220.00	€ 31,680.00
5	Overtime Rates #3 – (Fridays & Saturdays)	48	Hrs	€ 275.00	€ 13,200.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	27	Days	€ 355.00	€ 9,585.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. B-2 – #6 – Gearbox Engineer				€ 80,055.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	30-Sep-22	Friday	Hrs	TRAVELLING DAY					
2	01-Oct-22	Saturday	Hrs	-	-	-	12	-	
3	02-Oct-22	Sunday	Hrs	-	2	2	-	8	
4	03-Oct-22	Monday	Hrs	-	2	2	-	8	
5	04-Oct-22	Tuesday	Hrs	-	2	2	-	8	
6	05-Oct-22	Wednesday	Hrs	-	2	2	-	8	
7	06-Oct-22	Thursday	Hrs	-	2	2	-	8	
8	07-Oct-22	Friday	Hrs			Day-Off			
9	08-Oct-22	Saturday	Hrs	-	-	-	12	-	
10	09-Oct-22	Sunday	Hrs	-	2	2	-	8	
11	10-Oct-22	Monday	Hrs	-	2	2	-	8	
12	11-Oct-22	Tuesday	Hrs	-	2	2	-	8	
13	12-Oct-22	Wednesday	Hrs	-	2	2	-	8	
14	13-Oct-22	Thursday	Hrs	-	2	2	-	8	
15	14-Oct-22	Friday	Hrs			Day-Off			
16	15-Oct-22	Saturday	Hrs	-	-	-	12	-	
17	16-Oct-22	Sunday	Hrs	-	2	2	-	8	
18	17-Oct-22	Monday	Hrs	-	2	2	-	8	
19	18-Oct-22	Tuesday	Hrs	-	2	2	-	8	
20	19-Oct-22	Wednesday	Hrs	-	2	2	-	8	
21	20-Oct-22	Thursday	Hrs	-	2	2	-	8	
22	21-Oct-22	Friday	Hrs			Day-Off			
23	22-Oct-22	Saturday	Hrs	-	-	-	12	-	
24	23-Oct-22	Sunday	Hrs	-	2	2	-	8	
25	24-Oct-22	Monday	Hrs	-	2	2	-	8	
26	25-Oct-22	Tuesday	Hrs	-	2	2	-	8	
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			0	36	36	48	144	0
	Total Working Hours:								264

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Pos. B-3 – #7 – Mechanical Engineer – Process & Discharge – DAY Shift

[illegible]

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Pos. B-4 – #8 – Mechanical Engineer – Process & Discharge – NIGHT Shift

[illegible]

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Detailed Price Breakdown + Tentative Work Schedule
Pos. C-1 – #9 – Gearbox Engineer – DAY Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	144	Hrs	€ 198.00	€ 28,512.00
2	Overtime Rates #1 – (9 & 10 Hours)	36	Hrs	€ 220.00	€ 7,920.00
3	Overtime Rates #2 – (From 11 th Hour)	36	Hrs	€ 220.00	€ 7,920.00
4	Normal Rates - Night Shift – (8 Hours)	0	Hrs	€ 220.00	€ 0.00
5	Overtime Rates #3 – (Fridays & Saturdays)	48	Hrs	€ 275.00	€ 13,200.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	27	Days	€ 355.00	€ 9,585.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. C-1 – #9 – Gearbox Engineer				€ 76,887.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	30-Sep-22	Friday	Hrs	TRAVELLING DAY					
2	01-Oct-22	Saturday	Hrs	-	-	-	12	-	
3	02-Oct-22	Sunday	Hrs	8	2	2	-	-	
4	03-Oct-22	Monday	Hrs	8	2	2	-	-	
5	04-Oct-22	Tuesday	Hrs	8	2	2	-	-	
6	05-Oct-22	Wednesday	Hrs	8	2	2	-	-	
7	06-Oct-22	Thursday	Hrs	8	2	2	-	-	
8	07-Oct-22	Friday	Hrs			Day-Off			
9	08-Oct-22	Saturday	Hrs	-	-	-	12	-	
10	09-Oct-22	Sunday	Hrs	8	2	2	-	-	
11	10-Oct-22	Monday	Hrs	8	2	2	-	-	
12	11-Oct-22	Tuesday	Hrs	8	2	2	-	-	
13	12-Oct-22	Wednesday	Hrs	8	2	2	-	-	
14	13-Oct-22	Thursday	Hrs	8	2	2	-	-	
15	14-Oct-22	Friday	Hrs			Day-Off			
16	15-Oct-22	Saturday	Hrs	-	-	-	12	-	
17	16-Oct-22	Sunday	Hrs	8	2	2	-	-	
18	17-Oct-22	Monday	Hrs	8	2	2	-	-	
19	18-Oct-22	Tuesday	Hrs	8	2	2	-	-	
20	19-Oct-22	Wednesday	Hrs	8	2	2	-	-	
21	20-Oct-22	Thursday	Hrs	8	2	2	-	-	
22	21-Oct-22	Friday	Hrs			Day-Off			
23	22-Oct-22	Saturday	Hrs	-	-	-	12	-	
24	23-Oct-22	Sunday	Hrs	8	2	2	-	-	
25	24-Oct-22	Monday	Hrs	8	2	2	-	-	
26	25-Oct-22	Tuesday	Hrs	8	2	2	-	-	
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			144	36	36	48	0	0
	Total Working Hours:			264					

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Detailed Price Breakdown + Tentative Work Schedule
Pos. C-2 – #10 – Gearbox Engineer – NIGHT Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	0	Hrs	€ 198.00	€ 0.00
2	Overtime Rates #1 – (9 & 10 Hours)	36	Hrs	€ 220.00	€ 7,920.00
3	Overtime Rates #2 – (From 11 th Hour)	36	Hrs	€ 220.00	€ 7,920.00
4	Normal Rates - Night Shift – (8 Hours)	144	Hrs	€ 220.00	€ 31,680.00
5	Overtime Rates #3 – (Fridays & Saturdays)	48	Hrs	€ 275.00	€ 13,200.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	27	Days	€ 355.00	€ 9,585.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. C-2 – #10 – Gearbox Engineer				€ 80,055.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	30-Sep-22	Friday	Hrs	TRAVELLING DAY					
2	01-Oct-22	Saturday	Hrs	-	-	-	12	-	
3	02-Oct-22	Sunday	Hrs	-	2	2	-	8	
4	03-Oct-22	Monday	Hrs	-	2	2	-	8	
5	04-Oct-22	Tuesday	Hrs	-	2	2	-	8	
6	05-Oct-22	Wednesday	Hrs	-	2	2	-	8	
7	06-Oct-22	Thursday	Hrs	-	2	2	-	8	
8	07-Oct-22	Friday	Hrs	-	-	-	12	-	
9	08-Oct-22	Saturday	Hrs			Day-Off			
10	09-Oct-22	Sunday	Hrs	-	2	2	-	8	
11	10-Oct-22	Monday	Hrs	-	2	2	-	8	
12	11-Oct-22	Tuesday	Hrs	-	2	2	-	8	
13	12-Oct-22	Wednesday	Hrs	-	2	2	-	8	
14	13-Oct-22	Thursday	Hrs	-	2	2	-	8	
15	14-Oct-22	Friday	Hrs	-	-	-	12	-	
16	15-Oct-22	Saturday	Hrs			Day-Off			
17	16-Oct-22	Sunday	Hrs	-	2	2	-	8	
18	17-Oct-22	Monday	Hrs	-	2	2	-	8	
19	18-Oct-22	Tuesday	Hrs	-	2	2	-	8	
20	19-Oct-22	Wednesday	Hrs	-	2	2	-	8	
21	20-Oct-22	Thursday	Hrs	-	2	2	-	8	
22	21-Oct-22	Friday	Hrs	-	-	-	12	-	
23	22-Oct-22	Saturday	Hrs			Day-Off			
24	23-Oct-22	Sunday	Hrs	-	2	2	-	8	
25	24-Oct-22	Monday	Hrs	-	2	2	-	8	
26	25-Oct-22	Tuesday	Hrs	-	2	2	-	8	
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			0	36	36	48	144	0
	Total Working Hours:								264

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Pos. C-3 – #11 – Mechanical Engineer – Process & Discharge – DAY Shift

[illegible]

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Pos. C-4 – #12 – Mechanical Engineer – Process & Discharge – NIGHT Shift[illegible]

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Pos. D-1 – #13 – Cobra Specialist – DAY Shift[illegible]

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Pos. D-2 – #14 – Electrical / Control Engineer – DAY Shift[illegible]

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Detailed Price Breakdown + Tentative Work Schedule
Pos. D-3 – #15 – Site Manager – DAY Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	144	Hrs	€ 198.00	€ 28,512.00
2	Overtime Rates #1 – (9 & 10 Hours)	36	Hrs	€ 220.00	€ 7,920.00
3	Overtime Rates #2 – (From 11 th Hour)	36	Hrs	€ 220.00	€ 7,920.00
4	Normal Rates - Night Shift – (8 Hours)	0	Hrs	€ 220.00	€ 0.00
5	Overtime Rates #3 – (Fridays & Saturdays)	96	Hrs	€ 275.00	€ 26,400.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	32	Days	€ 355.00	€ 11,360.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. D-3 – #15 – Site Manager				€ 91,862.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	27-Sep-22	Tuesday	Hrs	TRAVELLING DAY					
2	28-Sep-22	Wednesday	Hrs	8	2	2	-	-	8
3	29-Sep-22	Thursday	Hrs	8	2	2	-	-	8
4	30-Sep-22	Friday	Hrs	-	-	-	12	-	-
5	01-Oct-22	Saturday	Hrs	-	-	-	12	-	-
6	02-Oct-22	Sunday	Hrs	8	2	2	-	-	8
7	03-Oct-22	Monday	Hrs	8	2	2	-	-	8
8	04-Oct-22	Tuesday	Hrs	Day-Off					
9	05-Oct-22	Wednesday	Hrs	8	2	2	-	-	8
10	06-Oct-22	Thursday	Hrs	8	2	2	-	-	8
11	07-Oct-22	Friday	Hrs	-	-	-	12	-	-
12	08-Oct-22	Saturday	Hrs	-	-	-	12	-	-
13	09-Oct-22	Sunday	Hrs	8	2	2	-	-	8
14	10-Oct-22	Monday	Hrs	Day-Off					
15	11-Oct-22	Tuesday	Hrs	8	2	2	-	-	8
16	12-Oct-22	Wednesday	Hrs	8	2	2	-	-	8
17	13-Oct-22	Thursday	Hrs	8	2	2	-	-	8
18	14-Oct-22	Friday	Hrs	-	-	-	12	-	-
19	15-Oct-22	Saturday	Hrs	-	-	-	12	-	-
20	16-Oct-22	Sunday	Hrs	8	2	2	-	-	8
21	17-Oct-22	Monday	Hrs	Day-Off					
22	18-Oct-22	Tuesday	Hrs	8	2	2	-	-	8
23	19-Oct-22	Wednesday	Hrs	8	2	2	-	-	8
24	20-Oct-22	Thursday	Hrs	8	2	2	-	-	8
25	21-Oct-22	Friday	Hrs	-	-	-	12	-	-
26	22-Oct-22	Saturday	Hrs	-	-	-	12	-	-
27	23-Oct-22	Sunday	Hrs	Day-Off					
28	24-Oct-22	Monday	Hrs	8	2	2	-	-	8
29	25-Oct-22	Tuesday	Hrs	8	2	2	-	-	8
30	26-Oct-22	Wednesday	Hrs	8	2	2	-	-	8
31	27-Oct-22	Thursday	Hrs	8	2	2	-	-	8
32	28-Oct-22	Friday	Hrs	TRAVELLING DAY					
Working Hours for:				144	36	36	96	0	0
Total Working Hours:									

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Detailed Price Breakdown + Tentative Work Schedule
Pos. D-4 – #16 - Mechanical Engineer - Jumper – DAY / Night Shift

Pos	Budgetary Price Breakdown	Qty	Uom	Unit Price	Total Price
1	Normal Rates – Day Shift – (8 Hours)	128	Hrs	€ 198.00	€ 25,344.00
2	Overtime Rates #1 – (9 & 10 Hours)	32	Hrs	€ 220.00	€ 7,040.00
3	Overtime Rates #2 – (From 11 th Hour)	32	Hrs	€ 220.00	€ 7,040.00
4	Normal Rates - Night Shift – (8 Hours)	0	Hrs	€ 220.00	€ 0.00
5	Overtime Rates #3 – (Fridays & Saturdays)	84	Hrs	€ 275.00	€ 23,100.00
6	Overtime Rates #4 - Public Holidays	0	Hrs	€ 275.00	€ 0.00
7	Mobilization / De-mobilization Charges	1	R.Trip	€ 9,750.00	€ 9,750.00
8	Daily Allowances	27	Days	€ 355.00	€ 9,585.00
9	Standby days / Quarantine (if applicable)	0	Days	€ 1,600.00	€ 0.00
10	Allowance - standby days / Quarantine (if applicable)	0	Days	€ 355.00	€ 0.00
Total Price for Pos. D-4 – #16 - Mechanical Engineer - Jumper				€ 81,859.00	

SN	Service Period		Uom	Normal	OT1	OT2	OT3	Night	OT4
1	30-Sep-22	Friday	Hrs	TRAVELLING DAY					
2	01-Oct-22	Saturday	Hrs	-	-	-	12	-	
3	02-Oct-22	Sunday	Hrs	8	2	2	-	-	
4	03-Oct-22	Monday	Hrs	8	2	2	-	-	
5	04-Oct-22	Tuesday	Hrs	8	2	2	-	-	
6	05-Oct-22	Wednesday	Hrs	8	2	2	-	-	
7	06-Oct-22	Thursday	Hrs	8	2	2	-	-	
8	07-Oct-22	Friday	Hrs	-	-	-	12	-	
9	08-Oct-22	Saturday	Hrs	-	-	-	12	-	
10	09-Oct-22	Sunday	Hrs			Day-Off			
11	10-Oct-22	Monday	Hrs	8	2	2	-	-	
12	11-Oct-22	Tuesday	Hrs	8	2	2	-	-	
13	12-Oct-22	Wednesday	Hrs	8	2	2	-	-	
14	13-Oct-22	Thursday	Hrs	8	2	2	-	-	
15	14-Oct-22	Friday	Hrs	-	-	-	12	-	
16	15-Oct-22	Saturday	Hrs	-	-	-	12	-	
17	16-Oct-22	Sunday	Hrs	8	2	2	-	-	
18	17-Oct-22	Monday	Hrs	8	2	2	-	-	
19	18-Oct-22	Tuesday	Hrs			Day-Off			
20	19-Oct-22	Wednesday	Hrs	8	2	2	-	-	
21	20-Oct-22	Thursday	Hrs	8	2	2	-	-	
22	21-Oct-22	Friday	Hrs	-	-	-	12	-	
23	22-Oct-22	Saturday	Hrs	-	-	-	12	-	
24	23-Oct-22	Sunday	Hrs	8	2	2	-	-	
25	24-Oct-22	Monday	Hrs	8	2	2	-	-	
26	25-Oct-22	Tuesday	Hrs	8	2	2	-	-	
30	26-Oct-22	Wednesday	Hrs	TRAVELLING DAY					
	Working Hours for:			128	32	32	84	0	0
	Total Working Hours:			276					

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2.4 Commercial Conditions

**Total Budgetary Lump Sum Price: € 1,137,496.00
(excluding quarantine charges and VAT)**

The price quoted above is only an estimated budgetary value for all listed Engineers calculated based on the provided unit rates against tentative service duration / schedule.

The price includes Working Rates, Mobilization-Demobilization Charges, Local Transportation, Food, Accommodation and Daily Allowances.

The price is exclusive of the 15% applicable KSA standard Value Added Tax, which the customer shall be additionally liable to pay Coperion during Invoicing. All taxes imposed in Germany shall be for account of Coperion.

Remarks: The price is exclusive of Covid-19 Quarantine charges in Saudi Arabia, Germany and/or any other Nation outside KSA, which the customer shall be additionally liable to pay Coperion during Invoicing as per the actual total number of Quarantine days as advised by the Ministry of both the countries. The applicable quarantine period charges are as follows:

- Standby Charges: EUR 1600.- per Day per engineer
- Daily Allowances: EUR 355.- per Day per engineer

Equipment / Tool

The special tools required for Gearbox overhauling will be provided by Coperion on a lumpsum rental basis for a period of 3 weeks. Additional days will be charged acc. to our daily rates.

Payment Terms:

100% - Upon completion of service
Payment release - Net 30 Days upon SES release.

Remarks: If Service Entry Sheet No. (SES) is applicable and/or required for invoicing, then the Approved SES should be immediately released within 5 working days upon receipt of our invoice without deduction. Service Report will be issued upon receiving SES no.

The price quoted is only an estimated budgetary value and on completion of the visit, we will invoice with a final amount based on actual time sheet signed by the customer and as per the actual no. of quarantine days in KSA, Germany and/or any other Nation as advised by the Ministry of countries involved.

Price Basis:

The prices of our quotation have been calculated in accordance to the Service Contract Agreement 4600010174 dtd. April 2021. Should the cost situation change significantly before the start of the service, the new price will be fixed automatically and the Customer will be informed about it.

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Liquidated Damages

Not Applicable as Coperion scope of work is limited to Supervision services only.

Additional / Waiting Charges

xxx.- per day per engineer will be charged as additional cost for waiting, idle time for reasons beyond sellers control. On site hours (Safety orientation, medical tests for ID process, waiting for gate pass etc.) are liable to be charged under working hours according to our provided unit rates.

Daily allowances per engineer per calendar day – applicable for the engineers from Germany and/or any other nation outside KSA will be charged as per our quoted standard unit rate xx.- Clause #8,

Order Cancellation Charges

If you withdraw from the Contract or reschedule the agreed dates, we can demand compensation for our travel arrangements and expenses incurred. Our claim for compensation is lump sum in consideration of non-use of services and possible alternative use.

- Upto 31 Days before : xx%
- From 30 to 16 Days : xx%
- From 15 to 08 Days : xx%
- From 07 and Non-Use the agreed service : xx%

Place of Performance

SCchem Site, Jubail, Kingdom of Saudi Arabia

Service / Deputation Date:

The quoted number of days are only for budgetary estimation purpose.

Service start dates are subject to availability of our engineers. The exact service schedule to be discussed and mutually agreed min. 4 months in advance.

Quotation Validity: 30.12.2021

REMARKS:

Our scope of supplies and services are limited and only in accordance to this quotation CMES-0642. QSM10199.

All other Terms & Conditions, Unit Pricing, Exhibit III and Exhibit IV are applicable in accordance to the following docs. only.

- **This Quotation CMES-0642. QSM10199 dtd. Sep-28, 2021**
- **Schem-Coperion Service Contract Agreement, Ref. No. 4600010174**

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❖ **General T&C - Responsibilities of Client – wherever applicable:**

The Scope of work described shall be executed in accordance with the following terms and conditions.

- Isolation and Decontamination of Equipment/system.
- Electrical & Instrument disconnections
- System Blinding OR common blinding which interpreted with other contractors.
- Any Insulation & Refractory removal , repair or Installation activity
- All sort of Painting work.
- Any type of hot work involving cutting, grinding & welding as recommended by reliability & inspection.
- Erection of all scaffolds and revisions, Insulation and any type of welding and grinding works recommended by Inspection team or OEM.
- Providing necessary cranes, safety gears, steam & portable compressors along with relevant crews, Where over required.
- All NDT Inspections like verification of work quality and final approval of cleaning & repair work.
- Provide drawings, blinds, gaskets, spares or any other materials and consumables required to facilitate the subject job.
- All temporary lighting for confined space entry (IF required by GI, Class-1 Div-1)
- All EHS meters and monitors required by General Instruction
- All non-consumable material required to perform the scope of work
- Providing necessary consumable and expendable supplies in sufficient quality and quantity for personnel to perform the scope of work safely and efficiently.
- Supplying all qualified labor, Confined space attendants, supervision, tools, equipment, technical support, consumables, expendables, and temporary supplies necessary for, and reasonably incidental to complete Extruder work.
- Provide a well-trained & certified Permit receiver.
- Provide forklifts and qualified forklift operators.
- All necessary cleaning tools, sprays & chemicals.
- Coordination with reliability for any inspection.
- Where there would be a requirement of special safety arrangements, barricades and warning boards, these will be installed by client as per equipment & plant location.
- Maintaining a job site that is clean and free of debris at all times.
- Providing full time Safety personnel whose sole responsibility shall be to ensure personnel conduct work in acc. with Rules and Regulations of client, and that good safe work practices are utilized at all times.
- All tools, equipment, and resources are subject to initial and periodic inspection by client personnel to ensure safe and compliant use within the client facility. Contractor reserves the right to reject use of any tool(s) or equipment for cause. Tool container shall be provided by client.
- All Contractor nominated site employees incl. sub-suppliers (If any) shall be issued with all relevant site entry documents. These documents shall be valid for the entire duration of site visit period to prevent any site work delays.
- For any compulsory regulations / courses which require attendance by Contractor nominated employees & Sub-Suppliers, the required time period will be invoiced additionally by Contractor.
- All listed Contractor Tools and other installation materials are to be confirmed and accepted by the site security when entering site during the entire project duration.
- Lay-down area for all Materials & Tools shall be available for Contractor & Sub-Suppliers (If any) during the entire Service duration.
- Office facilities for Coperion-Blast Resistant
- Module for essential on-site personnel, or work space in the T/A office for non-essential personnel
- Room or Tent with tables and chairs for lunch and rest break
- Prayer facilities in designated work locations
- Smoke Shelters in designated work locations
- Sanitary facilities (toilets and hand wash stations)
- Provide utilities such as water, lights for internal and external use.
- Drinking water around the clock; Tea and Coffee availability

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- **Authority to Instruct**
Work orders are solely given to our personnel by us. Non-scheduled work requires our consent. The customer has the authority to instruct our personnel with regard to his work and safety regulations.
- **Assistance by the Customer**
The customer has to create in good time all conditions, including the legal ones, to enable our personnel's work, to give technical support, to provide appropriate working conditions and all necessary tools and devices in good time and free of charge which includes among other things the provision of office communication media like telephone, printer, scanner and internet access. Moreover, the customer has to take measures to safeguard personnel and equipment, to inform our personnel about local and internal company safety regulations and to control its adherence. The customer has to provide suitable premises with washing facilities and lockable storage rooms for tools, devices and spare parts etc. The costs for these services shall be borne by the customer. The skilled workers and auxiliary staff, which the customer provides, must be able to fulfil the jobs in every respect. The skilled workers and auxiliary staff provided by the customer shall obey the technical instructions of our personnel. We are only liable for incorrect instructions of our personnel if such instructions were given intentionally or as an act of culpable negligence, but we are not liable in case of incorrect execution of instructions by the customer's personnel.
- **Miscellaneous**
These terms and conditions for assembly supervision and start-up are supplemented by our general terms and conditions of sale.